

Title (en)
Axial piston machines

Title (de)
Axialkolbenmaschinen

Title (fr)
Moteurs axiaux

Publication
EP 1264963 A1 20021211 (EN)

Application
EP 02020810 A 19960314

Priority
• EP 96905087 A 19960314
• NZ 27073695 A 19950317

Abstract (en)
An engine/pump having a crank shaft (1) with a shaft axis (1A) and a crank axis (2A) oblique to the shaft axis (1A) which intersect with each other at X, piston/cylinder assemblies (6,12) to rotate about the shaft axis (1A) and having a reciprocal axis between its top dead centre and bottom dead centre, the reciprocal axis midway between TDC and BDC being normal to a line projected from X, piston control means (3) to rotate about said crank axis (2A), connection means for each piston (6) from said piston control means (3), to allow reciprocal movement of the pistons (6) within the cylinders (12) as the assemblies (6,12) rotate about the shaft axis (1A), cylinder head (5) which holds the cylinders (12) in an array, the head (5) including at least one port per cylinder, and ported means (13) relative to which said cylinder head (5) moves sealably to allow timed to the reciprocal movement of each piston (6) in its cylinder (12) and the rotational position, the opening and closing of each cylinder (12). Each cylinder (12) is indexed at a predetermined rate to the relative rotation of the crankshaft (1) through gearing (10). An alternative embodiment of the invention is also disclosed as shown in the figures. <IMAGE>

IPC 1-7
F01B 3/00; **F02B 57/00**; **F02B 75/26**

IPC 8 full level
F01B 3/00 (2006.01); **F01B 13/04** (2006.01); **F01C 9/00** (2006.01); **F01C 13/04** (2006.01); **F02B 57/00** (2006.01); **F02B 75/26** (2006.01); **F04B 1/14** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP US)
F01B 3/0032 (2013.01 - EP US); **F01B 13/04** (2013.01 - EP US); **F01C 9/002** (2013.01 - EP US); **F01C 9/005** (2013.01 - EP US); **F02B 57/00** (2013.01 - EP US); **F04B 1/146** (2013.01 - EP US); **F02B 2075/025** (2013.01 - EP US); **F02B 2075/027** (2013.01 - EP US); **F05C 2201/0478** (2013.01 - EP US); **F05C 2253/12** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)
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• [Y] US 3899880 A 19750819 - ROHS ULRICH
• [A] GB 1353642 A 19740522 - RENAULT

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9629506 A1 19960926; AT E269484 T1 20040715; AU 4892896 A 19961008; AU 718669 B2 20000420; BR 9607968 A 19980113; CN 1093590 C 20021030; CN 1187860 A 19980715; CN 1190588 C 20050223; CN 1328203 A 20011226; DE 69632754 D1 20040722; DE 69632754 T2 20050707; EP 0821760 A1 19980204; EP 0821760 A4 19980603; EP 1264963 A1 20021211; EP 1264963 B1 20040616; ES 2222427 T3 20050201; JP 3706140 B2 20051012; JP H11505579 A 19990521; NZ 270736 A 19981223; US 2002170511 A1 20021121; US 6250262 B1 20010626; US 6494171 B2 20021217

DOCDB simple family (application)
NZ 9600018 W 19960314; AT 02020810 T 19960314; AU 4892896 A 19960314; BR 9607968 A 19960314; CN 01109569 A 19960314; CN 96193909 A 19960314; DE 69632754 T 19960314; EP 02020810 A 19960314; EP 96905087 A 19960314; ES 02020810 T 19960314; JP 52831196 A 19960314; NZ 27073695 A 19950317; US 85279201 A 20010511; US 98352297 A 19970923